

IRBM LAUNCH COMPLEX NEAR GUANAJAY, CUBA CHRONOLOGY OF CONSTRUCTION

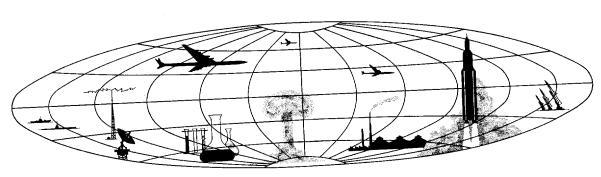




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NPIC/R-1449/63

IRBM LAUNCH COMPLEX NEAR GUANAJAY, CUBA

CHRONOLOGY OF CONSTRUCTION 25X1D

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west of Havana, identified on photography of

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sisted of two launch sites (Figure 1). Launch
Site 1, located 2.5 nautical miles (nm) eastnortheast of Guanajay at 22-57-00N 82-39-25W,
and Launch Site 2, located 4.7 nm east-northeast

The Guanajay IRBM Launch Complex south-

of Guanajay at 22-57-25N 82-36-55W, can be

Site I was estimated to be over 50 percent complete by while Site 2 was in an earlier stage of construction. As of it was estimated that Site 1 25X1D

was approximately 80 percent complete, whereas construction of Site 2 was estimated to be two

seen in very early stages of preparation (Figure

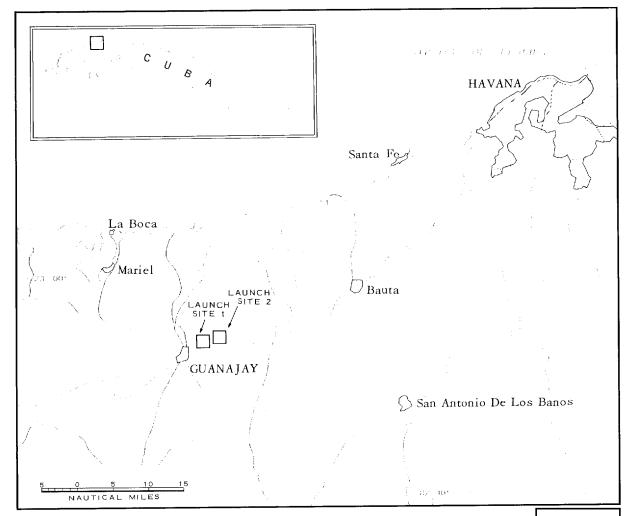


FIGURE 1. LOCATION OF IRBM LAUNCH COMPLEX.

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i• ≡		25X2		10/10	117/00
			. (Continued)		
Meta	Date	Launch Site 1		Launch Site 2	
		More fill on pads	Exc	cavation on 4th pad	
		Foundations for 0			
a si		Foundations for 2 ready bldgs			
25X1D		Approach aprons graded for 4	pads Cont	trol bunkers U/C	
784		Crane working on ready bldgs Two liquid storage tanks plac	Low ed in ne.	-pitched roof on rectangular bld arly complete	lg
		excavation Microwave communications lin	Conc	erete blocks for one wall at a ntrol bunker in place	
		Missile-support equipment arri		•	
•		Pads being graded, some fill a Additional cable ditches noted	added exc	crete segments placed in one cavation	
		Additional capie ditenes noted	(// (01)	e assembling prefab segments angular bldg nearly complete	
*		Probable missile-troop tents b	eing Segm	nents in all excavations	
		erected	Form	s indicate concrete work to be pads	gin
•		Site in process of being destro	1.7	in process of being destroyed/	
		abandoned		andoned	
		Estimated Time Required	for Completion of Launch	Sites:	
•	2	5X1			
		Site 2 - Transverse excav	ations - 8 days		
अ		Site 2 - Rectangular build	ing - 12 days (shell erected	d')	
		Site 2 - Assembly of segm	ents in excavations - 2 day	ys	
: a l	25X1D 25X1D	Site 2 - Pads concreted (a	,	05V4D	25X 45 X1D
		Site 2 - Earth fill at pads	- 12 days (minimum)	25X1D	23/46/10
	on	Launch Site I, as observed	. L 	An examination of	
41		appeared to have conblast walls erected, cable	sions two control bunk	ndicated that four launcers, and underground l	
	trenches nearly fin	nished, and concrete poured on		were being built at each	
25X1		. Excavations for fuel tanks	Guanajay IRBM si	ites. Site I was consider	ed to
25X1	were noted, and a	fenced and		te stage of construction,	
25X1	Pad ar	eas at Launch Site 2 had been		ility within six weeks. S r stage of construction,	
	cleared, and secur	ity fencing was beingerected.		estimated between	WILLI
		een laid for control bunkers,		There wer	
~ *		cavations across three of the dar building also was under		rt equipment detectable	with-
		e launch sites are shown on	in the Guanajay Nearly all fea	area on tures of sites in the Guar	na ia v
etal .	photography of			late indicated heavy const	
	in Figure 3.			ent nature. At Site 1, h	
	2	5X1D			

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25X1D

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struction.

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construction involving excavations for liquid storage tanks, transverse cable trenches, and probable vehicle revetments had been observed.

Concrete was being poured for launch pads, and two concrete batch plants were present. Four liquid storage tanks were located adjacent to one excavation. The site was being fenced and no mobile missile-related equipment had thus far been identified in the vicinity of the site. Only a few of these features were seen

at Site 2, which was in an earlier stage of con-

No missiles or missile-associated equipment were observed in the area of the sites. In addition, the current nature and extent of construction activity precluded the possibility of mobile missile-related equipment occupying these sites at the tim .

It was determined from photography that the earliest date Site I could have been started was _______ the appearance of the site six weeks later indic ted an urgency in the site construction program. The remaining construction work could protably have been completed on this urgent basis in four to six weeks. Six weeks was considerent the earliest time that this site could reach an perational status and still allow time for a toprough check of installed equipment. Construction at Site 2 appeared to lag behind that at 5 to 1 by about one month.

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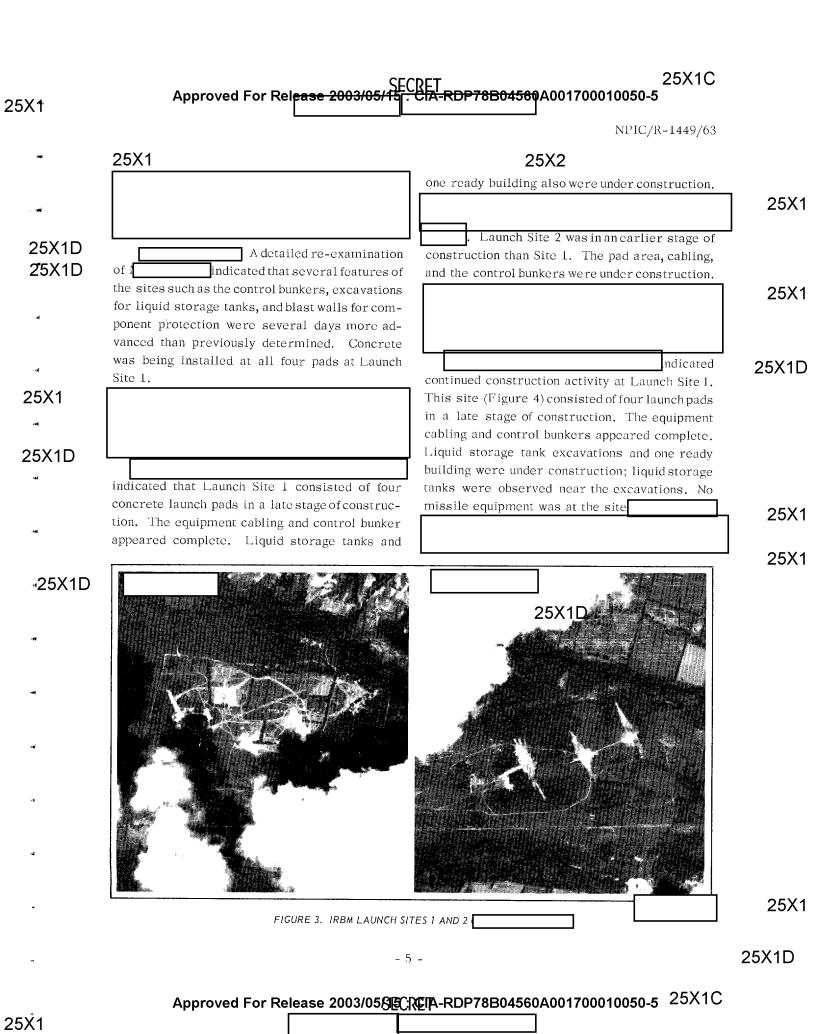
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FIGURE 2. IRBM LAUNCH SITES 1 AND 2

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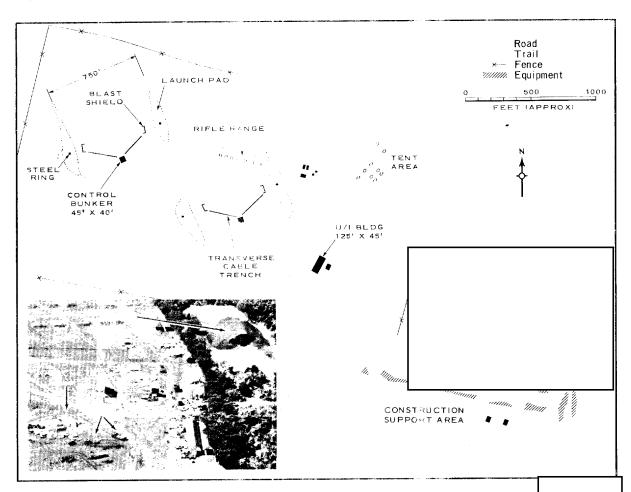
Launch Site 2 was in an earlier stage of construction than Site 1. The padarea, cabling, and control bunkers were under construction. No construction of missile-ready buildings or

that construction was continuing at a rapid pace at Launch Site 1. The four concrete pads were in a late stage of construction and the approach aprons had been graded. The equipment cabling and control bunkers appeared complete. Two liquid storage tank excavations were observed,

with two storage tanks alongside. The large

two missile-ready buildings were observed along the long axis of two of the pads. No missiles, transporters, of erectors were noted at the site.

Launch Site 2 was in an earlier stage of construction than Site 1. Excavation was continuing at the locations of the four launch pad areas. The low-pitched roof of the rectangular building to the west of the pads was partially in place. Cabling and control bunkers were still under construction. Excavation for liquid storage tanks had not started. There was no evidence of con-



TIGURE 4. IRBM LAUNCH SITE 1.

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SECRET Approved For Release 2003/05/15 : CIA-RDP78B04560A001700010050-5 25X1C 25X1 NPIC/R-1449/63 25X1 pads and the control building were in a late stage of construction. Concrete slabs were stacked near the probable location of a ready building and 25X1D a mobile crane was nearby. The foundation revealed considerable construction progress at had been started for a second ready building. Launch Site 1. The four concrete pads were in Two of the eight liquid storage tanks had been a late stage of construction and the approach placed in an excavation at one of the pads. aprons had been graded. Surveying equipment Preparation of Launch Site 2 also continued. and personnel were noted on two of the pads. There was construction activity at the launch An extension of the approach apron on the north control building at the western pair of pads, and side of the westernmost pad appeared to be the at all four pad areas. The roof of the rectanguposition of a future missile-ready shelter. There lar building near the pads was almost complete. were four liquid storage tanks visible; the tanks The concrete blocks in one wall of one of the 25X1D measured _____ Cable trenches between control buildings were also in place. The square the pads and the control building appeared comconcrete conduit segments had been put into one plete. Fourteen cable reels were observed in the of the trenches. Two of the other trenches had vicinity of each pair of pads. The control buildthese segments alongside. There were three ing appeared to be a tropical-type structure made mobile cranes operating at the site. of prefabricated masonry, with concrete pillars A possible regimental headquarters area and rafters. was also observed at 22-57-00N 82-38-25W, 25X1B about midway between Guanajay IRBM Site 1 and Site 2. The area contained approximately ten buildings, all of which were present prior to 25X1 A known military camp, this facil-25X1D storage area contained many preformed concrete ity may have been occupied by the Soviets; vehislabs of various sizes. No missiles, transcles and personnel were visible. There was also porters, or erectors were observed in the site evidence of vehicle movement between the area area. and Sites 1 and 2. Considerable construction activity was ob-A microwave communications station was served at Site 2, which was in an earlier stage identified adjacent to the headquarters area. It than Site 1. The control buildings between each consisted of an antenna tower with two parabolic pair of pads were under construction. Masonry antennas, and two buildings near the base of the sidings had been partially erected. The rectantower. One of the parabolic antennas, approxigular building west of the launch pad areas was mately feet in diameter, was oriented toward 25X1D still under construction. The side frames had a large high-frequency radio station near Bauta; been erected and the roof was partially assemthe orientation of the other was not determined. bled. A concrete batch plant could be seen near One of the buildings near the antenna was comthis site. No missiles, transporters, or erectors plete, and the second was under construction. were noted in the site area. 25X1D 25X1D indicated construction was continuing at Launch indicated that further construction progress had Site 1, and vehicle activity was noted throughout been made at Launch Site 1. The four concrete

the area. Conduit had been placed at three of the

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launch pads and preparations for conduit at the fourth pad was in progress. At least 44 missile-support vehicles were identified some 500 yards south of the open storage area, including 2 fuel trailers, 2 oxidizer trailers, 2 tracked primemovers, and 7 van-type trucks. Preparation of the site was continuing and missile-support equipment had arrived at an assembly area south of the site.

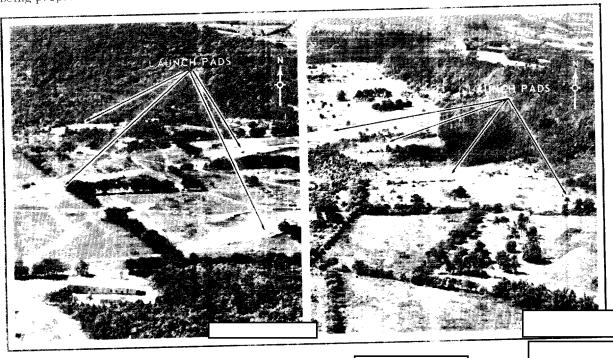
The photography also showed continuing activity and the presence of personnel at Site 2. The large rectangular building near the pads was nearly complete.

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showed construction still continuing at Launch Site I. Considerable vehicle activity was noted. I wo additional possible fuel trailers had been moved into the area. Two tents had been erected in the vehicle park area and foundations were being prepared for several more.

Construction activity continued at Site 2. Concrete conduits had been placed in the trenches which were prepared on _______ Prefabricated concrete blust shields had been added. The faunch pads had not been completed, but forms and other construction material at the faunch pad positions indicated that concrete work was about to begin. Construction-type vehicles were active throughout the site.

showed that construction activity at the IRBM sites had been stopped and the installations partially destroyed (Figure 5). The steel rings had been removed from the center of some pads. Nine steel rings were observed throughout the complex; four at the construction support area (three on the ground and one on a truck), four at Site 1, and one at Site 2. There still were no indications of initiation of construction of a bunker at Site 2.



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FIGURE 5. IRBM LAUNCH SITES 1 AND 2

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	Site I was being evacuated and had no operational capability. The foundations for the launch stands and some of the precast concrete conduit appeared to have been torn up and the equipment removed. There were trucks, prime movers, trailers, and powered heavy construction equipment visible in a support area about one nm south of the site. Other heavy construction equipment was assembled in an open storage area. Tents, which had been erected near the site, were gone. The site, under active construction at least	that the tents and most of the vehicles south of Launch Site I had been removed; only six objects, possibly vehicles, were in the launch pad area. The control buildings and launch pads appeared unchanged since the last previous coverage of although the small scale of the photography precluded a detailed assessment. Five of the storage tanks at the pads had been moved to the construction support area. There was no change noted, since coverage on	25X1D
25X1D 	through was being deactivated with the removal of missile ground support equipment. Some destruction of concrete work was evident. Site 2 had no operational capability, as it was incomplete and construction activity had ceased.	The small scale of the photographic coverage of Site 2 precluded detailed interpretation. An area located between Site 1 and Site 2, which had provided support to the construction effort, still contained numerous buildings and vehicles; however, the number of vehicles had been reduced by about one half. Missions flown on this date indicated that the known IRBM and MRBM sites were being abandoned. Some trucks and tents, probably awaiting transport, remained at several of the sites.	J

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